

1. Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An apparatus for separating an array slide from a gasket slide, comprising:
 - (a)-a first substrate for contacting and attaching to the array slide;
 - (b)-a second substrate for contacting and attaching to the gasket slide; and
 - (c)-~~separation means~~ for separating the first substrate from said second substrate.
2. (Currently Amended) An apparatus as recited in claim 1, further comprising a vacuum source operative to attach ~~wherein the first substrate attaches to the array slide by way of a vacuum.~~
3. (Currently Amended) An apparatus as recited in claim 1, wherein the first substrate is adhered ~~attaches to the array slide by way of adhesion.~~
4. (Currently Amended) An apparatus as recited in claim 1, wherein the first substrate is bonded to ~~attaches to the array slide by way of bonding to it.~~
5. (Currently Amended) An apparatus as recited in claim 1, further comprising a vacuum source operative to attach ~~wherein the second substrate attaches to the gasket slide by way of a vacuum.~~
6. (Currently Amended) An apparatus as recited in claim 1, wherein the second substrate

is adhered ~~attaches to the gasket slide by way of adhesion.~~

7. (Currently Amended) An apparatus as recited in claim 1, wherein the second substrate is bonded ~~attaches to the gasket slide by way of bonding to it.~~

8. (Original) An apparatus as recited in claim 1, wherein the first substrate is selected from the group consisting of glass, plastic, polymers, thermoplastic materials, metal, wood and composite materials.

9. (Original) An apparatus as recited in claim 1, wherein the second substrate is selected from the group consisting of glass, plastic, polymers, thermoplastic materials, metal, wood and composite materials.

10. (Original) An apparatus as recited in claim 1, wherein the means for separating the first substrate from the second substrate is selected from the group consisting of a vise, a clamp, a fastener, a machine, a hand, a wedge, and a lever.

11. (Currently Amended) An apparatus for separating an array slide from a gasket slide, comprising:

- (a) a first substrate for contacting the array slide;
 - (b) a second substrate opposite the first substrate for contacting the gasket slide;
 - (c) a first vacuum source associated with the first substrate for providing a first vacuum to the first substrate for attaching the first substrate to the array slide; and
 - (d) a second vacuum source associated with the second substrate for providing a second vacuum to the second substrate for attaching the gasket slide to the second substrate;
- ~~wherein the first substrate can be separate from the second substrate and the array slide is also separated from the gasket slide.~~

12. (Currently Amended) An apparatus for separating an array slide from a gasket slide, comprising:

- (a) a first substrate for contacting the array slide;
- (b) a second substrate opposite the first substrate for contacting the gasket slide;
- (c) a vacuum source associated with the first substrate and second substrate for providing a first vacuum to the first substrate for attaching the first substrate to the array slide and a second vacuum to the second substrate for attaching the gasket slide to the second substrate, ~~wherein the first substrate can be separated from the second substrate and wherein the array slide is also separated from the gasket slide.~~

13. (Currently Amended) An apparatus for separating an array slide from a gasket slide, comprising:

- (a) a first substrate for contacting the array slide, the first substrate comprising a first means for attaching to the array slide;
- (b) a second substrate for contacting and attaching to the gasket slide, the second substrate comprising a second means for attaching the second substrate to the gasket slide; and
- (c) means for separating said first substrate from said second substrate and concomitantly separating the array slide from the gasket slide.

14. (Currently Amended) An ~~array hybridization~~ apparatus as recited in claim 13, ~~wherein further comprising a~~ the gasket ~~comprises~~ comprising a deformable material.

15. (Currently Amended) An array hybridization apparatus as recited in claim 13, ~~wherein the further comprising a~~ spacer ~~comprises~~ comprising a substantially non-deformable material.

16. (Currently Amended) An ~~array hybridization~~ apparatus as recited in claim 13, ~~wherein the further comprising a~~ gasket is attached to the gasket slide.

17. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a gasket is attached to the array slide.~~
18. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a gasket comprises~~comprising a portion of the gasket slide.
19. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a gasket is attached to both the gasket slide and the array slide.~~
20. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a spacer is attached to the gasket slide.~~
21. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a spacer is attached to the array slide.~~
22. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a spacer is attached to both the gasket slide and the array slide.~~
23. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~wherein the further comprising a spacer comprises~~comprises a material selected from the group consisting of polyurethanes, polypropylene, plastics, acrylics, metals and non-deformable or less deformable polymers.
24. (Currently Amended) An ~~array hybridization apparatus~~ as recited in claim 13, ~~further comprising a wherein the spacer having a height is between 25 microns to and 500~~

microns in height.

25. (Currently Amended) An array hybridization apparatus as recited in claim 11, wherein the further comprising an array hybridization chamber having a height is between 25 microns and ~~to~~ 25,000 microns in height.

26. (Currently Amended) A method of disassembling an array hybridization apparatus having a gasket slide contacting an array slide, the method comprising:

a-contacting a first substrate with a vacuum to the array slide;

b-contacting a second substrate with a vacuum to a gasket slide; and

c-separating the first substrate from the second substrate while also separating the gasket slide from the array slide.

27. (Currently Amended) A method of disassembling an array hybridization apparatus having a gasket slide attached to an array slide, the method comprising:

a-contacting a second substrate to a gasket slide attached to an array slide;

b-contacting a first substrate to a gasket slide attached to an array slide attached to a gasket slide;

contacting a second substrate to the gasket slide; and

c-separating the first substrate from the second substrate while also separating the gasket slide from the array slide.